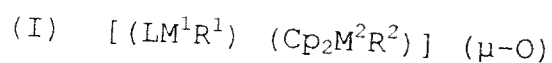


# ABSTRACT

The novel binuclear, oxygen-bridged, bimetallic complexes of the general formula (I):



are suitable as polymerization catalysts for olefin polymerization. ( $M^1 = Al, Ge, Zr, \text{ or } Ti$ ;  $M^2 = Zr, Ti, \text{ or } Hf$ ;  $Cp = \text{cyclopentadienyl}$ ;  $R^1, R^2 = H, \text{ methyl, ethyl, i-propyl, t-butyl, halogen, phenyl, alkylphenyl, } SiMe_3$ ;  $L = \text{a bidentate, doubly heteroatom-coordinated organic chemical ligand, which together with the metal } M^1 \text{ forms a 5 or 6-membered ring.}$ ) They display very good catalytic activities, good operating lives, and require little cocatalyst.

(Figure 3)